FUJI VIDEO-CASSETTE PRO-S

FUJI
VIDEOCASSETTE
S-VHS 625
SE-180 PRO-S
PRO-S
SE-180
258m/846'
α-BERIDOX
FUJI PRO-S
FUJI VIDEOCASSETTE
PRO-S
SE-180
S-VHS 625

FUJI FILM I&I Imaging Information

S VHS
625
FUJI
VIDEOCASSETTE
S VHS 625
SE-180 PRO-S
PRO-S
SE-180
258m/846'
BERIDOX
GRASS VALLEY GROUP
COLOR
COLOR ADAPTER
WIPE
POSITION
POWER

Welcome to a new world of video.

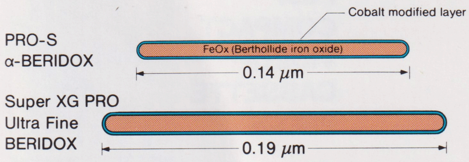
PRO-S

There's a new world of exciting sights and sounds waiting for you in every new Fuji PRO-S S-VHS videocassette. All-new clarity and brilliant color. All-new dynamic sound. In fact, Fuji PRO-S is like nothing you've ever seen — *or* heard.
S-VHS is a totally new concept in video technology and delivers quality never before possible from a conventional VTR system. And new Fuji PRO-S was specifically created for use with S-VHS.
Fuji PRO-S features all the latest advances from Fuji's state-of-the-art tape technology, including new breakthroughs for improved output and decreased noise in high video frequency ranges.

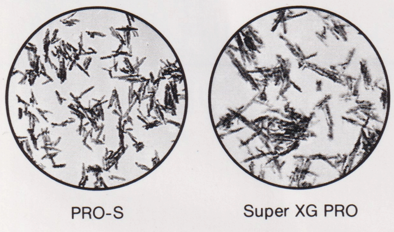
New α-BERIDOX magnetic particles, denser magnetic layer and super-smooth base for dramatically improved C/N in high-frequency ranges.

Since the S-VHS format raises the video signal white peak frequency from 4.8 MHz to 7.0 MHz, tape response in the short wavelength ranges becomes very important.
To improve this response, Fuji PRO-S uses newly developed α-BERIDOX magnetic particles. Particles have been reduced to an ultra-fine grain size (0.14μm in length) and Fuji PRO-S features intrinsic coercivity which is ideally suited for the S-VHS format. And the newly developed binder system features outstanding uniform dispersion characteristics to help pack these particles more densely into the magnetic layer.
As a result, when compared to Fuji's Super XG PRO, this tape features an 90% increase in magnetic energy [Intrinsic coercivity Hc (1.35×) × Retentivity (1.42×) = Magnetic energy (1.9)]. As a cobalt ferrite tape, it achieves unsurpassed output in the high-frequency ranges.
Fuji PRO-S uses a newly developed base film, smoother than the base used in Super XG PRO. A new Super Calender technology, which features outstanding characteristics for the magnetic surface layer, also helps give it mirror-like smoothness.
As a result, modulation noise has been significantly reduced. And along with high output characteristics thanks to the densely packed α-BERIDOX magnetic layer, Fuji PRO-S shows remarkably improved C/N (carrier output to noise ratio) in the high-frequency ranges.

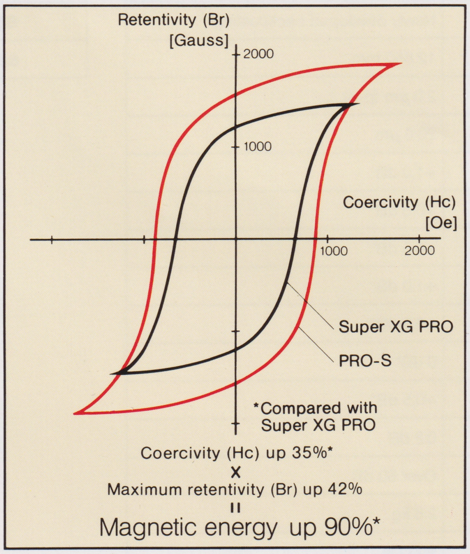
■ New α-BERIDOX magnetic particle



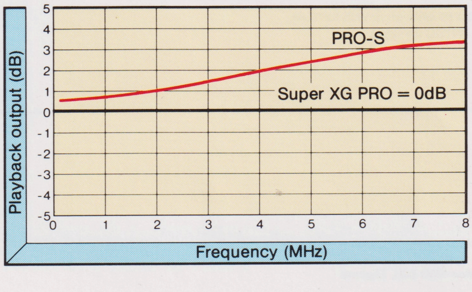
■ Microscopic comparison of magnetic particles


PRO-S
Super XG PRO

■ Magnetic characteristics



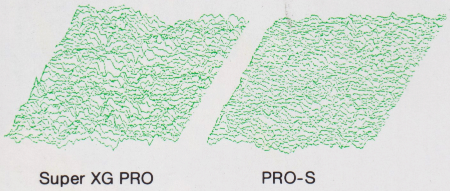
■ Video frequency characteristic



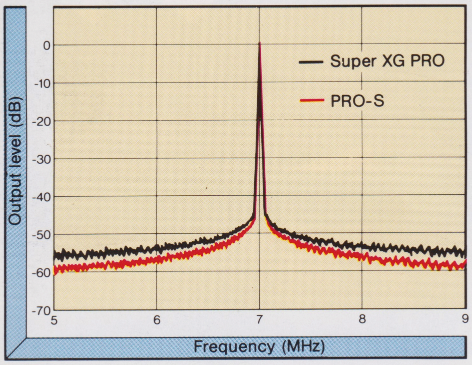
Unsurpassed quality even when used in conventional VHS VTRs

Fuji PRO-S is designed to deliver unparalleled performance when used in new S-VHS VTRs. However, Fuji PRO-S delivers higher quality images (video S/N + 0.5 dB, color S/N + 0.5 dB) than Fuji Super XG PRO even when used in conventional VHS VTRs.

■ Three-dimensional profile of magnetic layer



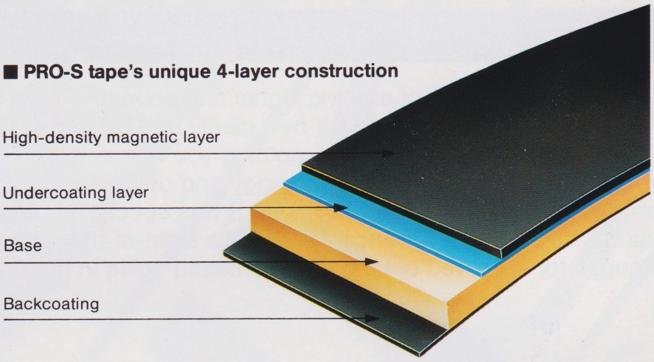
■ Modulation Noise Spectrum



Outstanding durability and stable tape transport

Fuji PRO-S employs the latest high-performance binder/high-performance backcoat technology, proven in use in "M II Metal Tape," the world's first half-inch metal tape for broadcasting use. PRO-S's new binder system offers outstanding durability and its new backcoating reduces the friction coefficient to a minimum, to help deliver stable, ultra-high quality reproduction under even the most extreme conditions.

■ PRO-S tape's unique 4-layer construction



FUJI VIDEO-CASSETTE PRO-S

TECHNICAL DATA		
Magnetic Particles		α-BERIDOX
Binder System		Newly developed binder
Base Material		Newly developed polyester base
Backcoating		Newly developed backcoating
Dimensional Data	Tape width	12.650 mm
	Width tolerance	2.0 μm (p-p)
	Tape thickness	20.0 μm
Video Performance	RF output	+1.0 dB*
	Video S/N	+0.5 dB*
	Color S/N	+0.5 dB*
	Chroma output	+1.0 dB*
Audio Performance	Sensitivity	+0.5 dB*
	Frequency response	0 dB*
	Audio S/N	+0.5 dB*
	Output variation	0.2 dB
	Erasability	Over 60 dB
Physical Properties	Yield strength	2.6 kg
	Intrinsic coercivity	900 Oe
	Retentivity	1700 Gauss

Note: Performance data are representative figures based on Fuji's standard measurements on S-VHS formula.
The figures marked with * are comparison with Fuji S-VHS Reference Tape. (NTSC version).

Size Availability and Recording Times		
Model No.	Tape Length	Recording Time
SE-30	45^{+3}_{-0} m (148 ft)	30 min.
SE-120	173^{+3}_{-0} m (568 ft)	2 hr.
SE-180	259^{+3}_{-0} m (846 ft)	3 hr.
SE-C30	44^{+3}_{-0} m (144 ft)	30 min.

FUJI COMPACT VIDEO-CASSETTE PRO-S

S-VHS C
625

FUJI
COMPACT VIDEOCASSETTE
S-VHS C
625
PRO-S
SE-C30
44m/144'
α-BERIDOX

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